McDonnell Boehnen Hulbert & Berghoff
Case No.: MBHB00-1150 Filed: November 13, 2001
Inventors: Eric C. Stelter, Joseph E. Guth,
and Ulrich Mutze
Title: Electrostatic Image Developing Processes and
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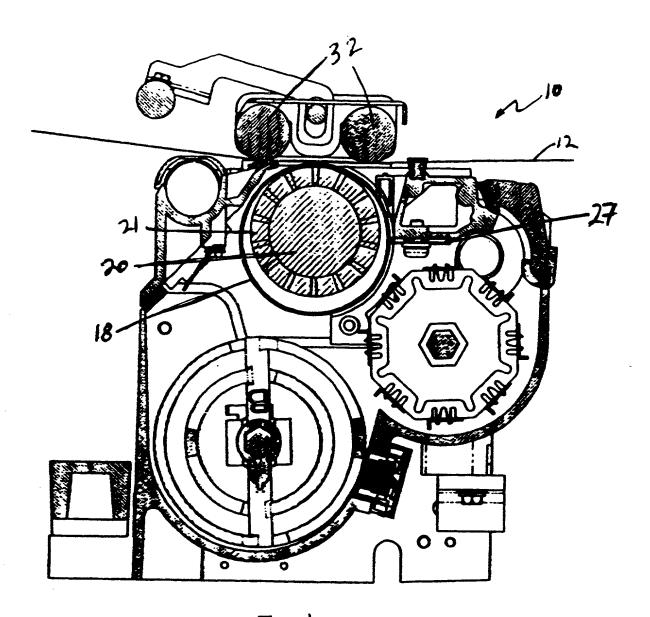


Fig. 1

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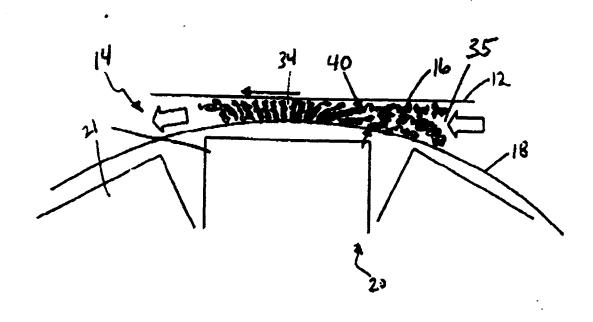
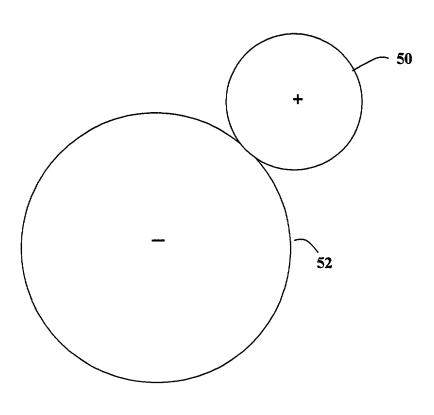


Fig. 2

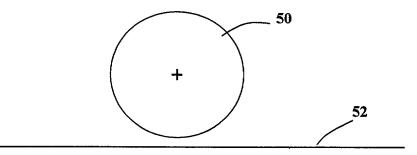
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Fig. 3



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Fig. 4



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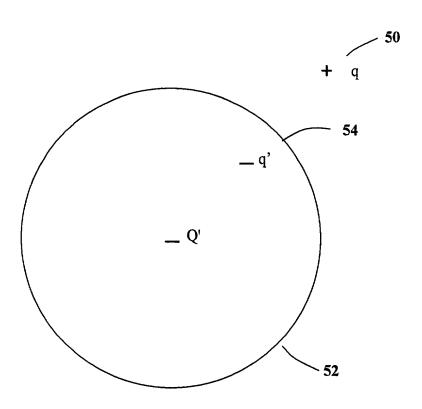
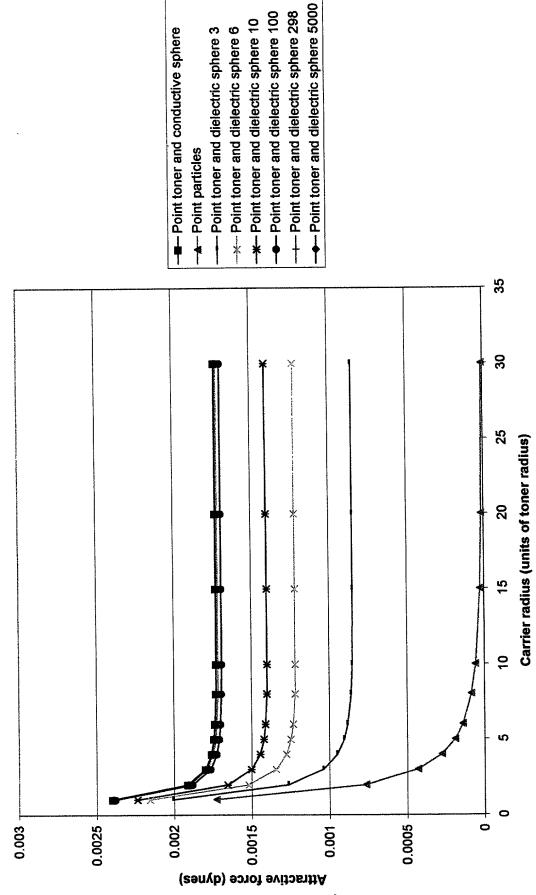
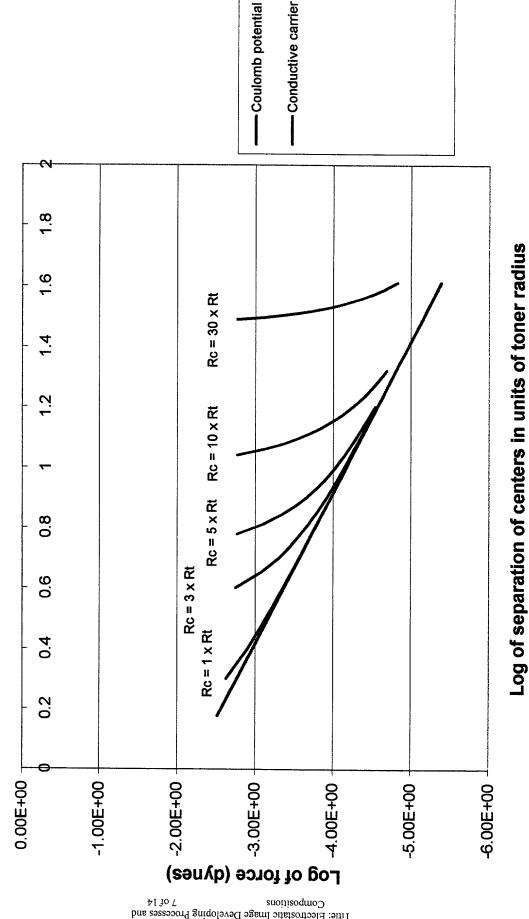


Fig. 6 Force on toner particle



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Attractive force (dynes)

Fig. 7 Force as a function of carrier size



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Fig. 8

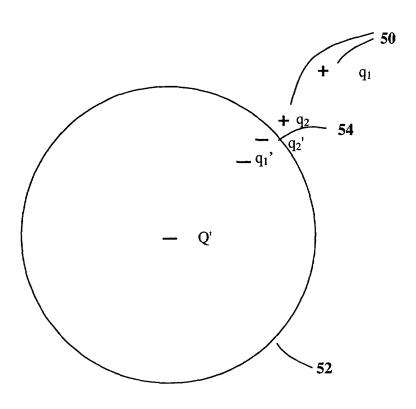
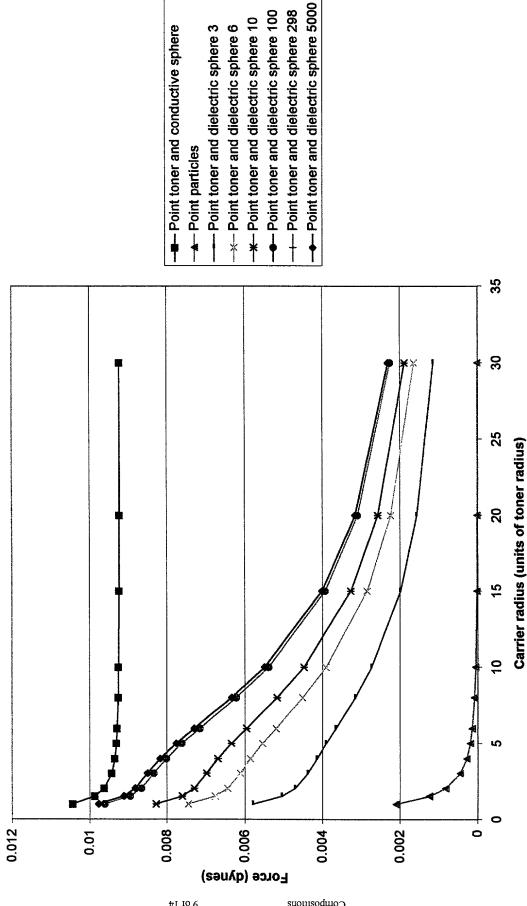


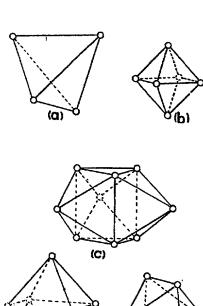
Fig. 9 Force on toner particle: 0.1 q concentrated on surface



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Fig. 10



Monodisperse particles with packing fraction 0.6 to 0.2 -Continuous void dist. 0.6 -Continuous void dist. 0.2 -Continuous void dist. 0.4 6.0 Fig. 11 Void sizes in drphs model ---- Discrete void dist. Void radius (units of carrier radius) 0.7 2 9 50 20 5 8 8 4 30

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Percent (cumulative)

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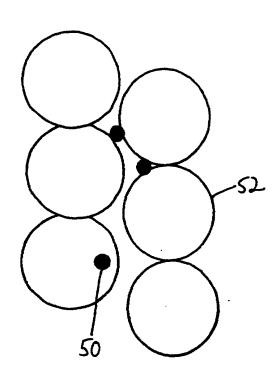
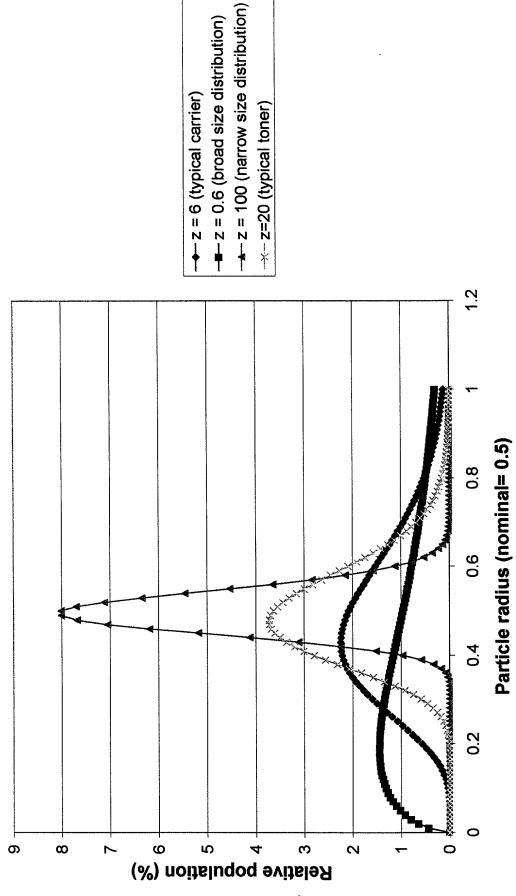


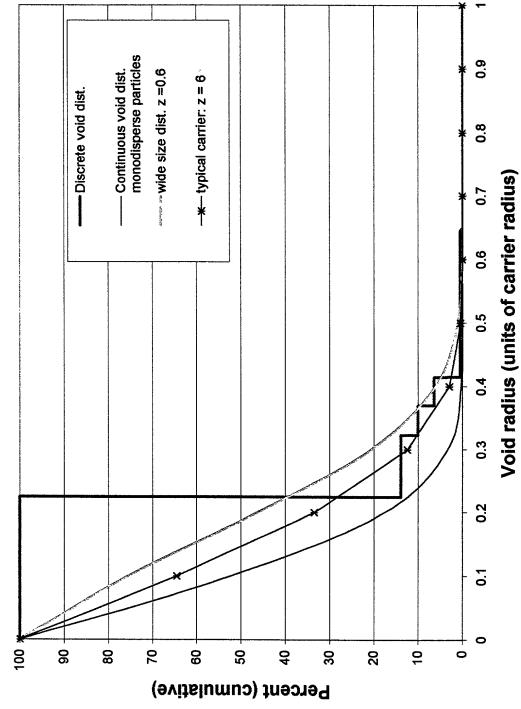
Figure 12

Fig. 13 Schulz distribution



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Fig. 14 Void sizes in drphs model



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